

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-18 (Canceled).

19. (New) A terminal apparatus connected to a network and configured to perform an operation, the terminal apparatus comprising:

a packet volume detecting unit configured to detect a number of packets received from the network in a predetermined time; and

a logical disconnecting unit configured to logically disconnect the terminal apparatus from the network when the number of packets detected by the packet volume detecting unit exceeds a predetermined value.

20. (New) The terminal apparatus according to claim 19, wherein the packet volume detecting unit detects the number of only those broadcast packets among packets received by the terminal apparatus, and the logical disconnecting unit logically disconnects the terminal apparatus from the network when the number of broadcast packets received in a predetermined time exceeds a predetermined value.

21. (New) The terminal apparatus according to claim 19, further including:

a reconnecting unit configured to reconnect said terminal apparatus to said network after a predetermined return time has elapsed since said terminal apparatus is disconnected from said network by said logical disconnecting unit.

22. (New) The terminal apparatus according to claim 21, wherein said reconnecting unit increases the length of said return time longer than that of said return

time in a previous disconnection when said terminal apparatus is disconnected again after the reconnection.

23. (New) The terminal apparatus according to claim 19, further including:
an inputting device for inputting a connection request for connecting said terminal apparatus to said network.

24. (New) The terminal apparatus according to claim 19, further including:
a display device for displaying the fact that said terminal apparatus is disconnected.

25. (New) The terminal apparatus according to claim 19, further including:
a unit for storing history information about disconnection and reconnection of said terminal apparatus; and
a display device for displaying the history information.

26. (New) The terminal apparatus according to claim 19, wherein said packet volume detecting unit does not detect said number of packets when the terminal apparatus is logically disconnected from said network.

27. (New) The terminal apparatus according to claim 19, further including:

a first changing unit configured to change said predetermined value in accordance with a processing load required via said network.

28. (New) The terminal apparatus according to claim 27, wherein said first changing unit changes said predetermined value in accordance with a transition of said processing load required via said network.

29. (New) The terminal apparatus according to claim 19, further including:

a second changing unit configured to change said predetermined value in accordance with a status of said network.

30. (New) A control method of a terminal apparatus connected to a network and configured to perform an operation, the control method of a terminal apparatus comprising the steps of:

detecting a number of packets received from a network in a predetermined time; and

logically disconnecting the terminal apparatus from the network when the detected number of packets exceeds a predetermined value.

31. (New) A computer readable medium with code embodied therein for performing a control method of a terminal apparatus connected to a network and configured to perform an operation, the method comprising:

detecting a number of packets received from the network in a predetermined time; and

logically disconnecting the terminal apparatus from the network when the detected number of packets exceeds a predetermined value.

32. (New) A network system including a plurality of terminal apparatuses connected to a network, each terminal apparatus comprising:
a packet volume detecting unit configured to detect the number of packets received from the network in a predetermined time; and
a logical disconnecting unit configured to logically disconnect the terminal apparatus from the network when the number of packets detected by the packet volume detecting unit exceeds a predetermined value.

33. (New) A control method of a network system including a plurality of terminal apparatuses connected to a network, the control method of a network system comprising the steps of:
detecting, in each terminal apparatus, the number of packets received from the network in a predetermined time; and
logically disconnecting a corresponding terminal apparatus from the network when the detected number of packets exceeds a predetermined value.

34. (New) A computer readable medium with code embodied therein for performing a control method of a network system including a plurality of terminal apparatuses connected to a network, the method comprising:
detecting, in each of the plurality of terminal apparatuses, a number of packets received from the network in a predetermined time; and
logically disconnecting a corresponding terminal apparatus from the network when the detected number of packets exceeds a predetermined value.